

FIG. 3

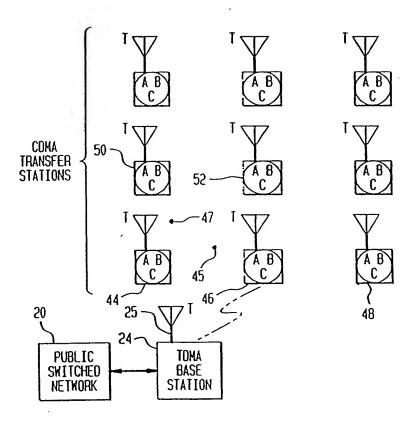


FIG. 4

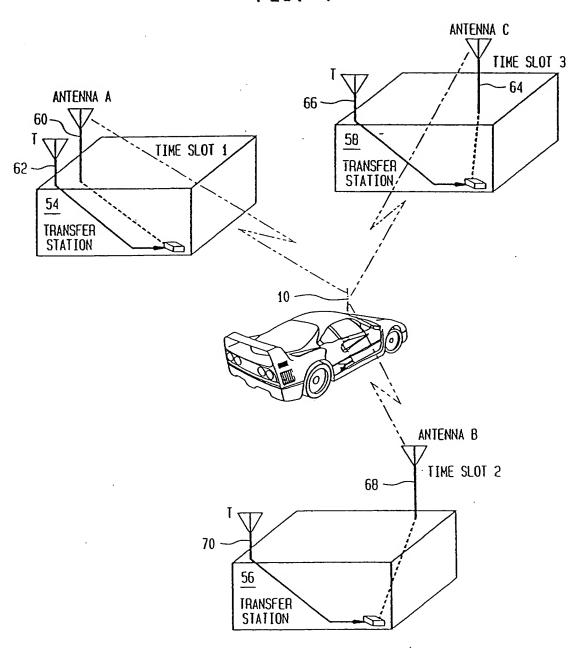


FIG. 5

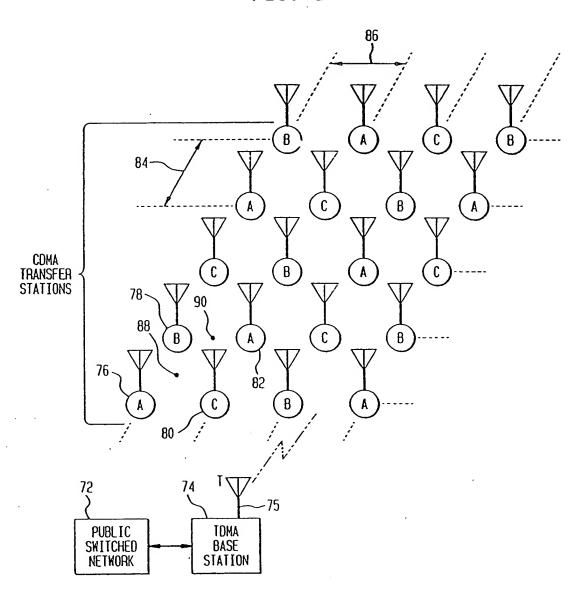


FIG. 6

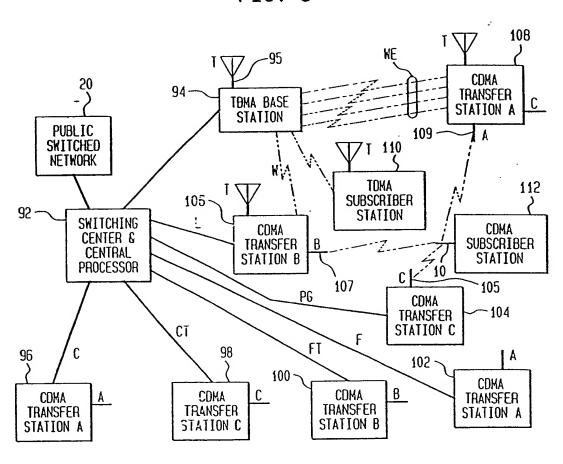
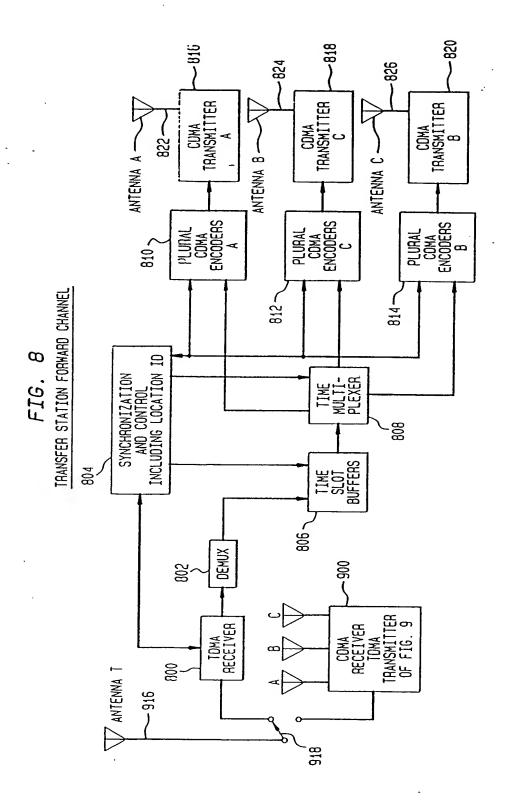


FIG. 7

TIME SLOT	S 1	5	3	4	5	6
	RECEIVE		TRANSMIT	RECEIVE	SCAN	SPARE



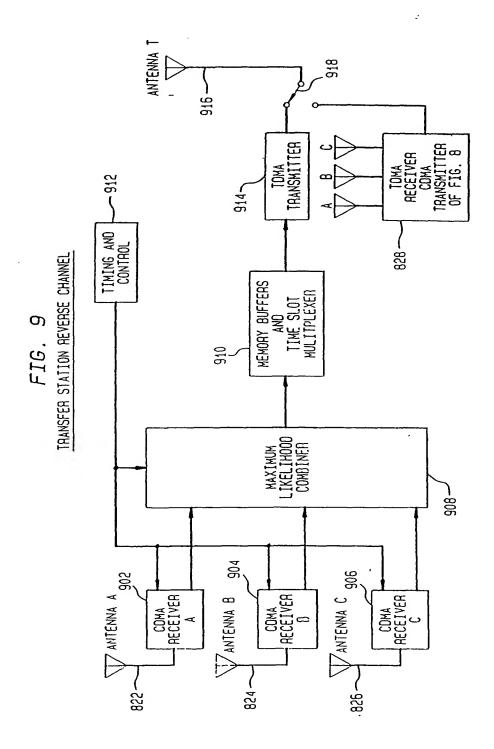


FIG. 10A

				^					
TRANSFER STATION COMA OUTPUT TO ANTENNAS (FORWARD-CHANNEL)									
TIME SLOTS		2.	3	4	5	6	_ 1	2	
ANTENNA A	Γi	15	T ₃	T ₄	15	16	^T 1	T2	
- ANTENNA B	76	Ίſ	Τ ₂	T ₃	14	T ₅	⁷ 6	Ti	1002
ANTENNA C	14	ī ₅	T ₆	Ti	15	13	14	15	
TIME SLOTS					OM ANTE)
ANTENNA A	1 R ₅	2 R ₆	3 R ₁	R ₂	5 fi ₃	6 R ₄	R ₅	2 R ₆	
					f:3	R ₄			4004
ANTENNA B	A ₅	R ₆	Ri	ъ- ВS			R ₅	R ₆	1004
ANTENNA C	R ₅	R ₆	R ₁	ВS	БЗ	R ₄	R ₅	R ₆	
T_X = TRANSMITTER CHANNEL X R_X = RECEIVER CHANNEL X									
			FI	G. 1	0B				
	RANSFER	STATIO	N COMA	OUTPUT	שדוגג סד	NNAS (F	ORWARD	CHANNEL)	
TIME SLOTS	_1_	2	3	4	5	6	1	2	
ANTENNA A	T ₁ , 7	1 ₂ , 8	T _{3,9}	T _{4. 10}	^T 5. 11	^T 6, 12	11.7	12.8	
antenna B	T _{6, 12}	T _{1,7}	T _{2,8}	13,9	14, 10	^T 5, 11	T _{6. 12}	T _{1,7}	1006
ANTENNA C	T _{4, 10}	T _{5. 11}	T _{6, 12}	T _{1.7}	15'8	13, 9	T _{4. 10}	T _{5, 11}	
TIME SLOTS	RANSFER				ROM ANTE		REVERSE		_)
	1	2	3	4	5	6	1	5	
ANTENNA A	R _{5. 11}	R _{6. 12}	R _{1.7}	H2. 8	R _{3. 9}	R _{4. 10}	R _{5, 11}	R _{6, 12}	
ANTENNA B	Rs. 11	R _{6, 12}	R _{1.7}	R _{2.8}	R _{3, 3}	R _{4. 10}	R _{5, 11}	^R 6, 12	1008
ANTENNA C	R ₅ , 11	R _{6. 12}	A _{1.7}	R _{2.8}	R _{3. 9}	A _{4.} 10	A _{5, 11}	R _{6, 12}	
I_X = TRANSMITTER CHANNEL X $I_{X,y}$ = TRANSMITTER CHANNELS X AND Y $I_{X,y}$ = RECEIVER CHANNELS X AND Y									

FIG. 11A

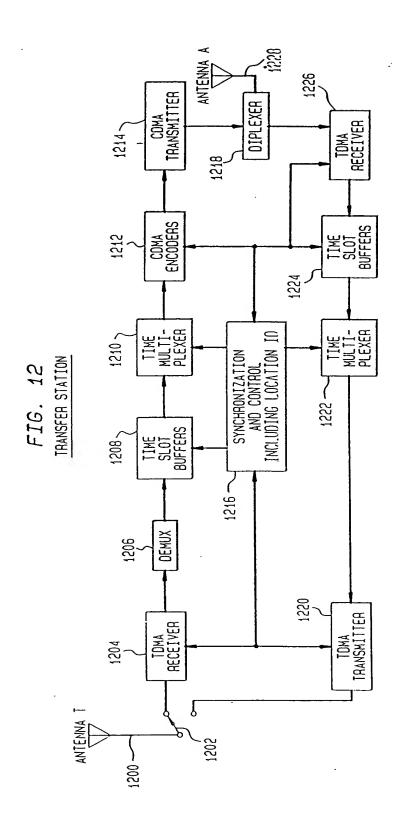
				·^_					
TRANSFER STATION COMA OUTPUT TO ANTENNAS (FORWARD CHANNEL)									
TIME SLOTS	1	2	3	4	5	66	1	22	
	T ₁	12	13	14	÷5	T ₆	Ti	Τ ₂	
411774114 4	17	Τ̄g	Τg	T ₁₀	T ₁₁	τ ₁₂	17	18	<u>1102</u>
ANTENNA A	T ₁₃	T ₁₄	T ₁₅	, T ₁₆	T ₁₇	T ₁₈	T ₁₃	T ₁₄	
	T ₁₉	T ₂₀	T ₂₁	T ₂₂ .	T ₂₃	T ₂₄	119	T ₂₀	
TIME SLOTS	1	2	3	4	<u>5</u>	6	1	2	•
	16	Ti	12	13	₹4	T ₅	16	11	
ANTENNA O	112	Т7	Т ₈	Ιg	ī <u>:</u> 0	T ₁₁	112	17	1104
ANTENNA B	T ₁₈	T ₁₃	T ₁₄	T ₁₅	116	T ₁₇	T ₁₈	¹ 13	
,	T ₂₄	T ₁₉	120	121	<u>.</u> 55	T ₂₃	T ₂₄	T ₁₉	
TIME SLOTS	1	2	3	4	5	6	11	2	
	14	15	T ₆	11	<u>:</u> 5	13	14	T ₅	
AUTCUMA O	T ₁₀	111	T ₁₂	17	<u>;</u> 8	Т9	T ₁₀	T ₁₁	<u>1106</u>
ANTENNA C	T ₁₆	T ₁₇	T ₁₈	T ₁₃	T 44	T ₁₅	T ₁₆	T ₁₇	
	122	123	124	119	<u>1</u> 50	121	122	123	

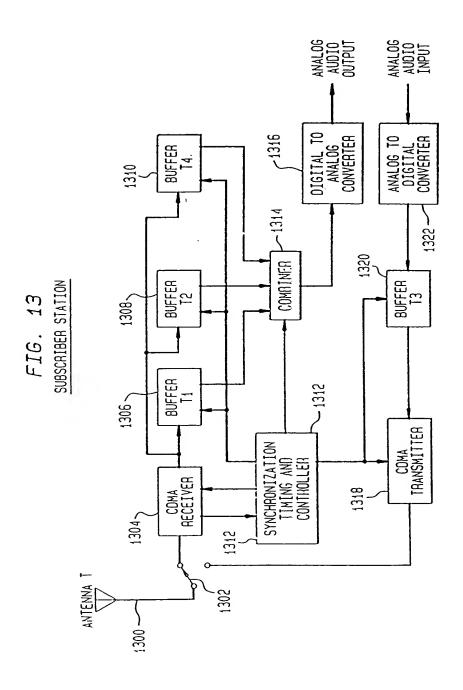
FIG. 11B

TRANSFER STATION COMA INPUT FROM ANTENNAS (REVERSE CHANNEL)

ANTENNA A. ANTENNA B AND ANTENNA C HAV IDENTICAL TIM SLOTTING	E
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1	2	3	4	5	6	. 1	2	
R ₅	R ₆	R ₁	Я ₂	∂3	A ₄	R ₅	R ₆	
Rii	R12	R ₇	R ₈	Eg.	R ₁₀	R ₁₁	R ₁₂	1108
R ₁₇	R ₁₈	R ₁₃	R ₁₄	² :5	^R 16	R ₁₇	A ₁₈	
₈ 53	R ₂₄	R ₁₉	_U 50	ĥ21	_H SS	H ₂₃	R ₂₄	





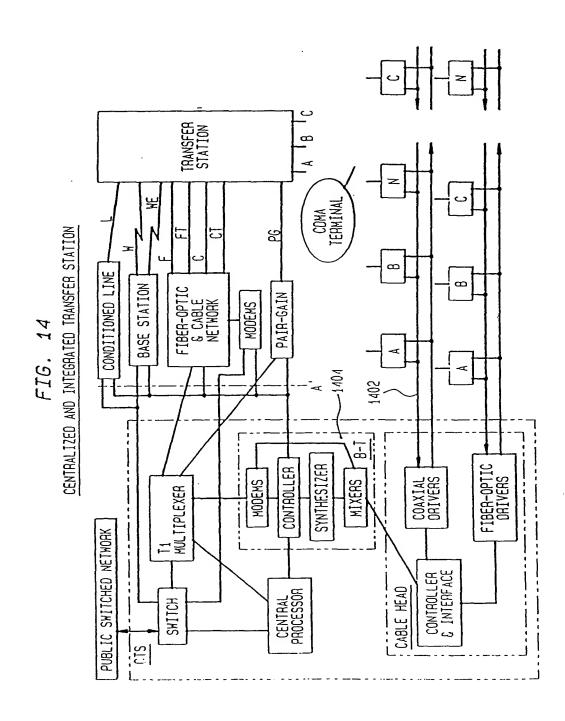


FIG. 15 TRANSFER STATION ANTENNA IMPLEMENTATION 1510 1516 1512 1503 1502 DIPLEXER 1520 - 1514 DIPLEXER MODULATOR -1518 DIPLEXER - 1504 DEMODULATOR 1506 DEMODULATOR - 1508 DEMODULATOR

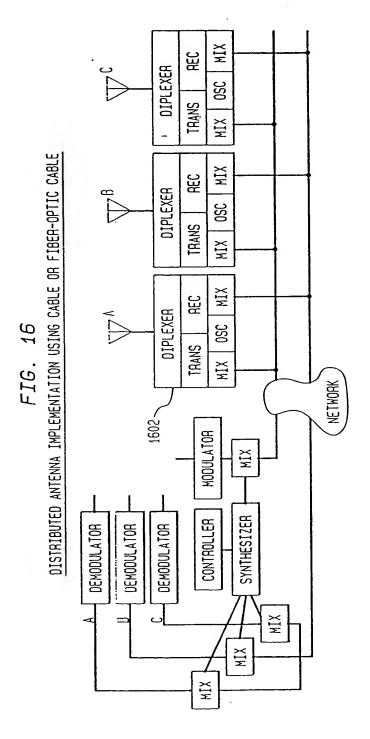


FIG. 17
SYNCH AND CONTROL CHANNEL STRUCTURE

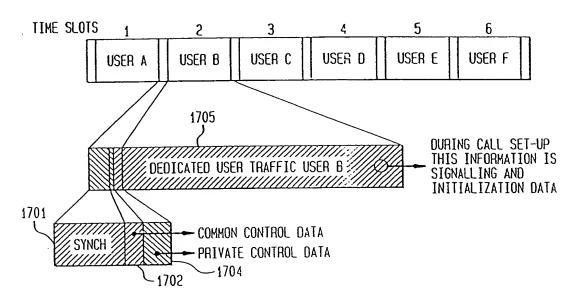


FIG.~18TIME CALIBRATION FOR DISTRIBUTED ANTENNA IMPLEMENTATION

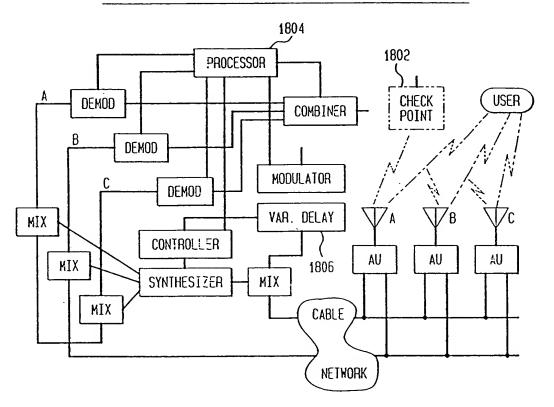


FIG. 19
LOCATION CENTER EXTERNAL TO COMMUNICATION SYSTEM

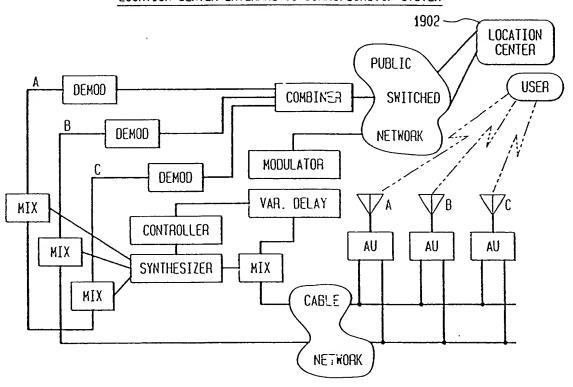


FIG. 20

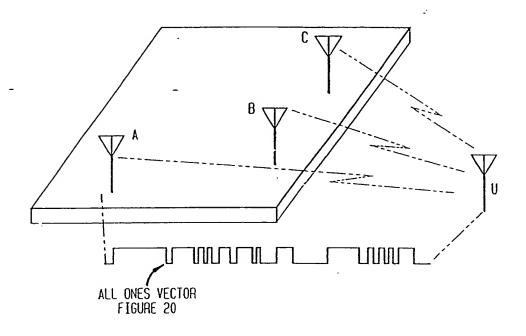


FIG. 21

